

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	("4274133"   "4633157"   "4679129"   "4685041"   "4785387"   "4814962"   "4841220"   "4845605"   "4857822"   "4902957"   "4950974"   "4956760"   "5048033"   "5066900"   "5122728"   "5146399"   "5164656"   "5164892"   "5177675").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 07:17
L2	33997	((high adj frequency) and (power and converter))	USPAT	OR	ON	2006/09/14 07:21
L3	4672	((high adj frequency) and (power and converter)) and (high and (duty adj cycle))	USPAT	OR	ON	2006/09/14 07:22
L4	924	((high adj frequency) and (power and converter)) and (high and (duty adj cycle)) and (((current and mode) and control) and ((clamp or clamping or clamped) and voltage))	USPAT	OR	ON	2006/09/14 07:24
L5	242	((high adj frequency) and (power and converter)) and (high and (duty adj cycle)) and (((current and mode) and control) and ((clamp or clamping or clamped) and voltage)) and (((split or dual) and primary) and transformer)	USPAT	OR	ON	2006/09/14 07:25
L6	0	((high adj frequency) and (power and converter)) and (high and (duty adj cycle)) and (((current and mode) and control) and ((clamp or clamping or clamped) and voltage)) and (((split or dual) and primary) and transformer) and ((full adj bridge) and rectifire)	USPAT	OR	ON	2006/09/14 07:28
L7	78	((high adj frequency) and (power and converter)) and (high and (duty adj cycle)) and (((current and mode) and control) and ((clamp or clamping or clamped) and voltage)) and (((split or dual) and primary) and transformer) and ((full adj bridge) and rectifier)	USPAT	OR	ON	2006/09/14 07:28

## EAST Search History

L8	11	((high adj frequency) and (power and converter)) and (high and (duty adj cycle)) and (((current and mode) and control) and ((clamp or clamping or clamped) and voltage)) and (((split or dual) and primary) and transformer) and ((full adj bridge) and rectifier)) and ((diode same (connected near3 parallel) same (output and inductor)))	USPAT	OR	ON	2006/09/14 07:32
L9	1	((high adj frequency) and (power and converter)) and (high and (duty adj cycle)) and (((current and mode) and control) and ((clamp or clamping or clamped) and voltage)) and (((split or dual) and primary) and transformer) and ((full adj bridge) and rectifier)) and ((diode same (connected near3 parallel) same (output and inductor)) and (compensat\$ and (ripple adj voltage)))	USPAT	OR	ON	2006/09/14 07:33
L10	10	("3702434"   "3742330"   "4042856"   "4251857"   "4533986"   "4761722"   "4783795"   "4999568"   "5155430"   "6169391").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 07:37
L11	26	("4761722").URPN.	USPAT	OR	ON	2006/09/14 07:42
L12	25	("4533986"   "4686615"   "4761722"   "5272613"   "5274543"   "5408403"   "5805432"   "5907481"   "5973939"   "5986895"   "6023037"   "6064580"   "6069799"   "6111769"   "6181084"   "6262901"   "6344986"   "6452367"   "6452816"   "6469915"   "6545883"   "6556462"   "6560127"   "6580626"   "6650552").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 07:47
L13	10	("4533986"   "4686615"   "4761722"   "5272613"   "5408403"   "6023037"   "6064580"   "6181084"   "6344986"   "6556462").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:04
L14	9	("4729088"   "5146398"   "5408403"   "5471378"   "5576940"   "5712536"   "6031739"   "6388429"   "6469917").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:05
L15	2	("3754160"   "5408403").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:07
L16	22	("5712536").URPN.	USPAT	OR	ON	2006/09/14 08:08
L17	0	("5930127").URPN.	USPAT	OR	ON	2006/09/14 08:11

## EAST Search History

L18	8	("4933831"   "4949016"   "5063490"   "5274540"   "5459651"   "5712536"   "5737207"   "5777861").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:11
L19	14	("4758941"   "4953068"   "5157593"   "5231563"   "5414609"   "5430632"   "5442540"   "5444608"   "5541827"   "5625539"   "5926381"   "5930122"   "6147886"   "6310785").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:16
L20	11	("3487289"   "4186437"   "4399499"   "4618919"   "4663699"   "4672303"   "4720668"   "4727308"   "4742441"   "4814962").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:21
L21	3	("6560127").URPN.	USPAT	OR	ON	2006/09/14 08:22
L22	16	("5451962").URPN.	USPAT	OR	ON	2006/09/14 08:25
L23	12	("5400235").URPN.	USPAT	OR	ON	2006/09/14 08:26
L24	9	("6191957").URPN.	USPAT	OR	ON	2006/09/14 08:27
L25	7	("3818313"   "3986097"   "4953068"   "5745351"   "5991670"   "6191957"   "6452815").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:29
L26	1	("6876556").URPN.	USPAT	OR	ON	2006/09/14 08:34
L27	2611	363/16,17,98,132,127.ccls.	USPAT	OR	ON	2006/09/14 08:35
L28	145	27 and (80% or 90% or 100%) and (duty adj cycle)	USPAT	OR	ON	2006/09/14 08:37
L29	68	27 and (80% or 90% or 100%) and (duty adj cycle) and ((adjust or adjustable) and (duty adj cycle))	USPAT	OR	ON	2006/09/14 08:38
L30	14	27 and (80% or 90% or 100%) and (duty adj cycle) and ((adjust or adjustable) and (duty adj cycle)) and (measure or measuring)	USPAT	OR	ON	2006/09/14 08:39
L31	7	27 and (80% or 90% or 100%) and (duty adj cycle) and ((adjust or adjustable) and (duty adj cycle)) and (measure or measuring) and (ripple and voltage)	USPAT	OR	ON	2006/09/14 08:39
L32	4	27 and (80% or 90% or 100%) and (duty adj cycle) and ((adjust or adjustable) and (duty adj cycle)) and (measure or measuring) and (ripple and voltage) and (clamp or clamping)	USPAT	OR	ON	2006/09/14 08:40
L33	9	("4045973"   "4553070"   "4564897"   "4896242"   "5057698"   "5132889"   "5303140"   "5365422"   "5379209").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 08:45

## EAST Search History

L34	0	(power and converter) and (duty adj cycle) and ((resistor same series diode) and (parallel same inductor))	USPAT	OR	ON	2006/09/14 08:49
L35	0	((resistor same series diode) and (parallel same inductor))	USPAT	OR	ON	2006/09/14 08:48
L36	10083	((resistor same series diode) and (parallel same inductor))	USPAT	OR	ON	2006/09/14 08:48
L37	1307	(power and converter) and (duty adj cycle) and ((resistor same series diode) and (parallel same inductor))	USPAT	OR	ON	2006/09/14 08:49
L38	54	(power and converter) and (duty adj cycle) and ((resistor same series diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle))	USPAT	OR	ON	2006/09/14 08:50
L39	23	(power and converter) and (duty adj cycle) and ((resistor same series diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle)) and ((clamp or clamping) and voltage)	USPAT	OR	ON	2006/09/14 12:04
L40	1	(power and converter) and (duty adj cycle) and ((resistor same series diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle)) and ((clamp or clamping) and voltage) and (ripple adj voltage)	USPAT	OR	ON	2006/09/14 08:52
L41	5	(power and converter) and (duty adj cycle) and ((resistor same series same diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle)) and ((clamp or clamping) and voltage)	USPAT	OR	ON	2006/09/14 09:35

## EAST Search History

L42	44	("2399065"   "3153229"   "3324356"   "3671814"   "3754154"   "3846682"   "3932792"   "4150653"   "4368501"   "4434450"   "4450427"   "4479162"   "4578604"   "4608620"   "4638279"   "4656400"   "4659969"   "4665348"   "4700165"   "4710740"   "4793263"   "4868708"   "4910633"   "4978865"   "5053911"   "5093754"   "5128825"   "5264982"   "5267091"   "5359490"   "5381297"   "5406440"   "5442515"   "5442671"   "5467244"   "5539608"   "5546268"   "5602711"   "5621603"   "5673165"   "5724223").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 09:47
L43	6	("5602711").URPN.	USPAT	OR	ON	2006/09/14 09:50
L44	1	42 and (high adj frequency) and (high adj (duty adj cycle))	USPAT	OR	ON	2006/09/14 09:51
L45	1	42 and (high adj (duty adj cycle))	USPAT	OR	ON	2006/09/14 09:52
L46	3	42 and 100%	USPAT	OR	ON	2006/09/14 09:55
L47	13	(high adj (duty adj cycle)) same (switching adj frequency)	USPAT	OR	ON	2006/09/14 10:05
L48	3	((high adj (duty adj cycle)) same (switching adj frequency)) and (power adj converter)	USPAT	OR	ON	2006/09/14 10:06
L49	17	("6069802").URPN.	USPAT	OR	ON	2006/09/14 10:23
L50	6	("20020141206"   "5822199"   "6038145"   "6069802"   "6208535"   "6477065").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 10:24
L51	0	("6807071").URPN.	USPAT	OR	ON	2006/09/14 10:25
L52	0	"327"/\$.ccls. and (power and converter) and (duty adj cycle) and ((resistor same series diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle)) and ((clamp or clamping) and voltage)	USPAT	OR	ON	2006/09/14 12:04
L53	0	"327"/\$.ccls. and (power and converter) and (high adj (duty adj cycle)) and ((resistor same series diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle)) and ((clamp or clamping) and voltage)	USPAT	OR	ON	2006/09/14 12:05

## EAST Search History

L54	7	(power and converter) and (high adj (duty adj cycle)) and ((resistor same series diode) and (parallel same inductor)) and ((80% or 90% or 100%) adj (duty adj cycle)) and ((adjust or adjustable) and (duty adj cycle)) and ((clamp or clamping) and voltage)	USPAT	OR	ON	2006/09/14 12:09
L55	2	54 and (adjust or adjustable or variable) adj (duty adj cycle)	USPAT	OR	ON	2006/09/14 12:06
L56	5	54 not 55	USPAT	OR	ON	2006/09/14 12:17
L57	6226	(pwm and comparator)	USPAT	OR	ON	2006/09/14 12:17
L58	459	(pwm and comparator) and ((adjust or adjusting or adjustable or vari or variable) adj (duty adj cycle))	USPAT	OR	ON	2006/09/14 12:19
L59	239	(pwm and comparator) and ((adjust or adjusting or adjustable or vari or variable) adj (duty adj cycle)) and (80% oe 90% or 100%)	USPAT	OR	ON	2006/09/14 12:20
L60	5	(pwm and comparator) and ((adjust or adjusting or adjustable or vari or variable) adj (duty adj cycle)) and (80% oe 90% or 100%) and (lossless and switching)	USPAT	OR	ON	2006/09/14 12:20
L61	11	("4158787"   "4565940"   "4849668"   "4868447"   "5032753"   "5130948"   "5270607"   "5424596"   "5525853"   "5558477"   "5838092").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/14 12:33
L62	10	("6011345").URPN.	USPAT	OR	ON	2006/09/14 12:51
L63	2419	((current adj mode) and controller) and (control adj signal)	USPAT	OR	ON	2006/09/14 12:53
L64	77	63 and ((duty adj cycle) near3 (input and switching))	USPAT	OR	ON	2006/09/14 12:54
L65	51	63 and (((duty adj cycle) near3 (input and switching)) and (power adj converter))	USPAT	OR	ON	2006/09/14 12:55
L66	0	63 and (((duty adj cycle) near3 (input and switching)) and (power adj converter)) and ((measured or measuring) adj (duty adj cycle))	USPAT	OR	ON	2006/09/14 12:56
L67	33	63 and (((duty adj cycle) near3 (input and switching)) and (power adj converter)) and ((measured or measuring) and (duty adj cycle))	USPAT	OR	ON	2006/09/14 13:03

## EAST Search History

L68	0	63 and (((duty adj cycle) near3 (input and switching)) and (power adj converter)) and ((measured or measuring) and (duty adj cycle)) and ((compare or comparing or compar) near3 ((actual or fixed) and (duty adj cycle)))	USPAT	OR	ON	2006/09/14 12:59
L69	0	63 and (((duty adj cycle) near3 (input and switching)) and (power adj converter)) and ((measured or measuring) and (duty adj cycle)) and ((signal and analogous) near6 (measured same (duty adj cycle)))	USPAT	OR	ON	2006/09/14 13:02
L70	30	63 and (((duty adj cycle) near3 (input and switching)) and (power adj converter)) and ((measured or measuring) and (duty adj cycle)) and comparator	USPAT	OR	ON	2006/09/14 13:03